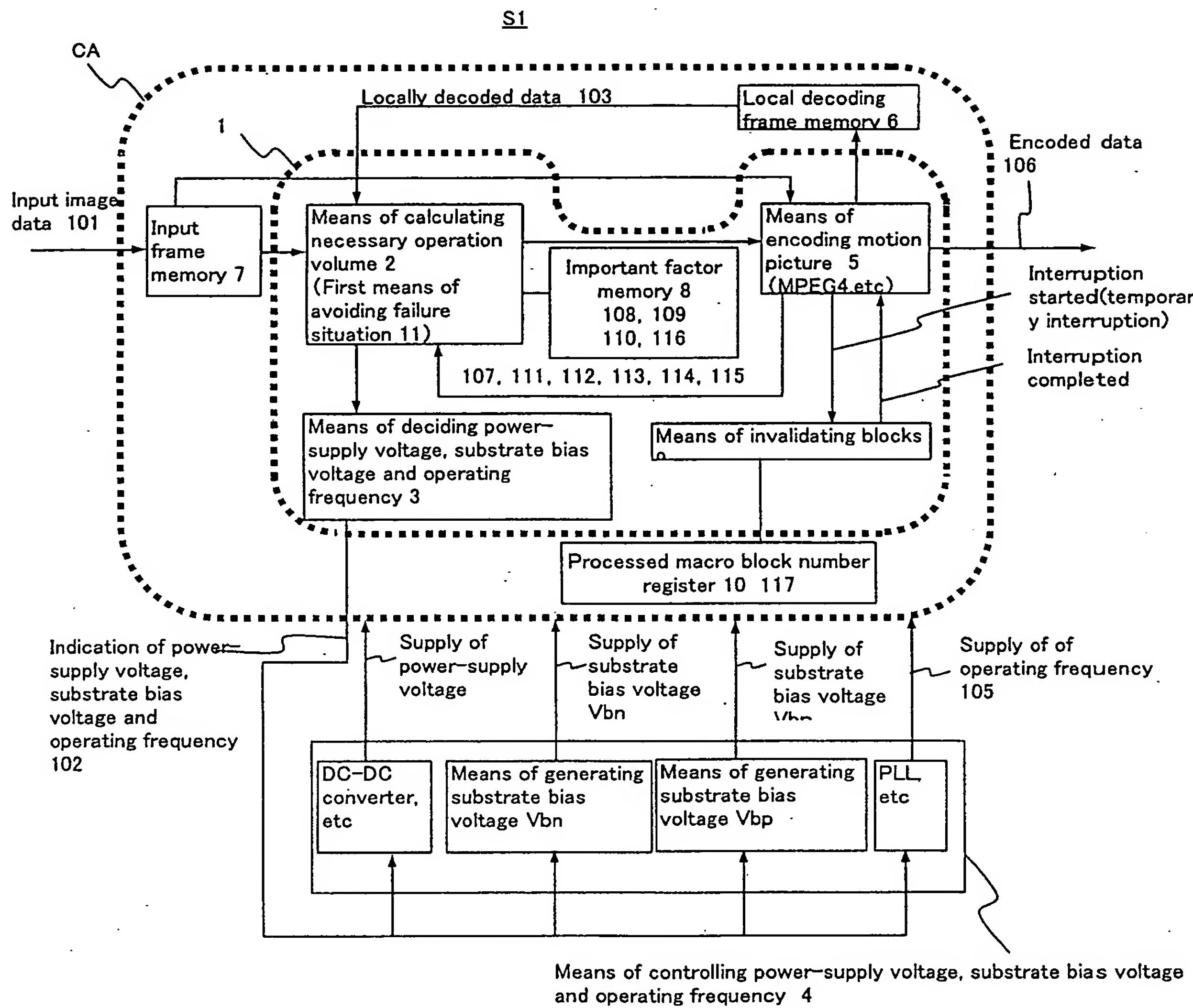
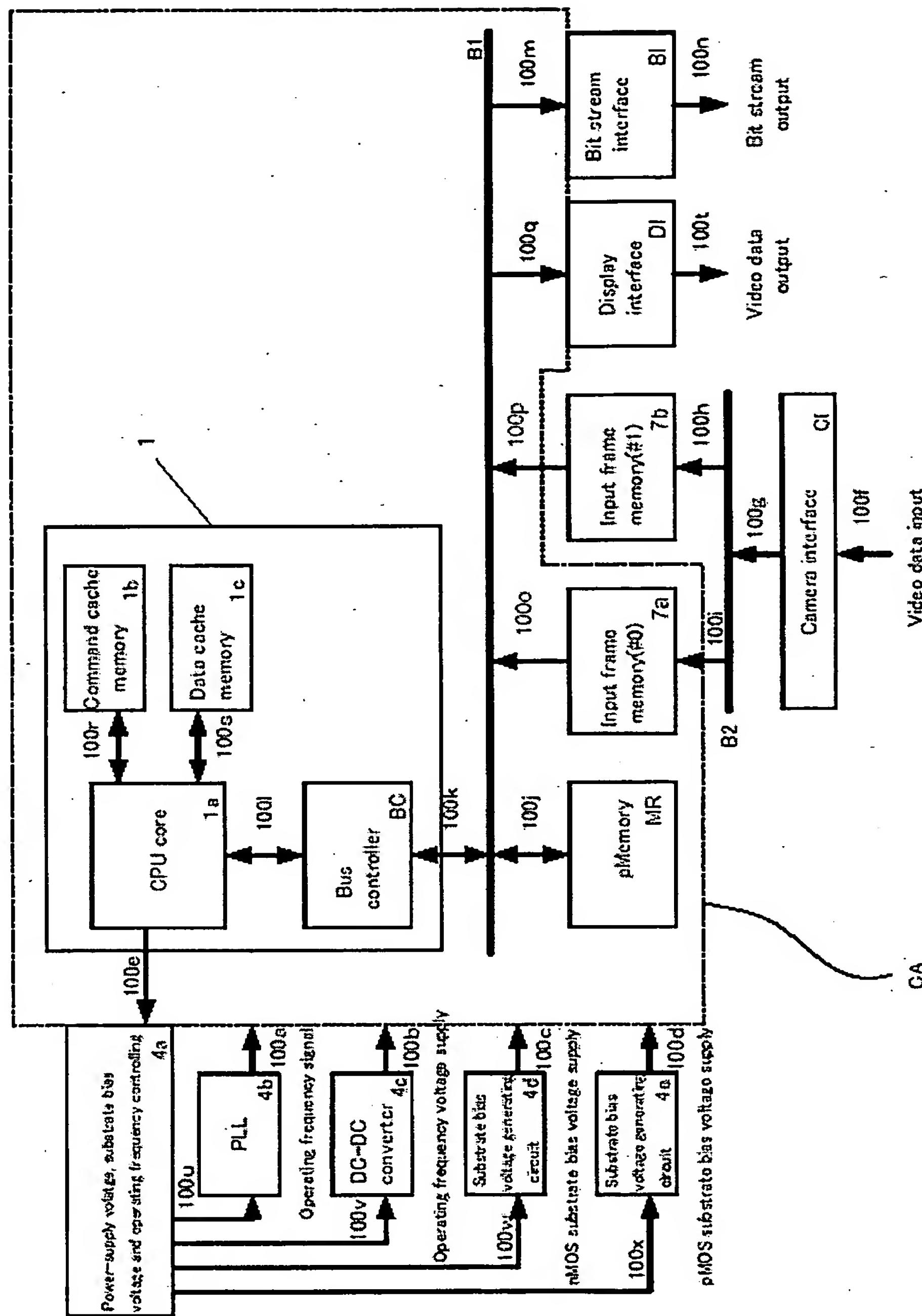


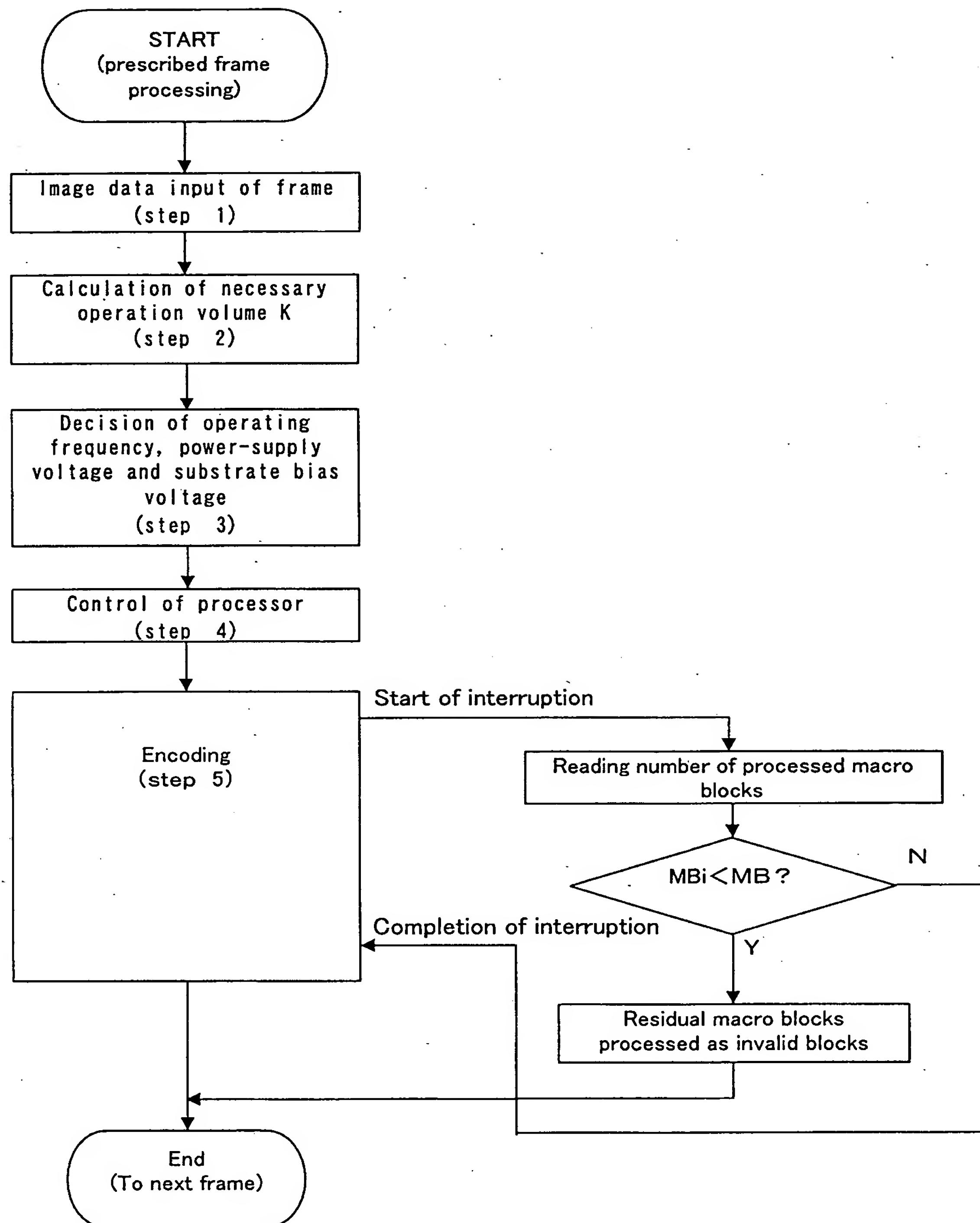
[Fig1]



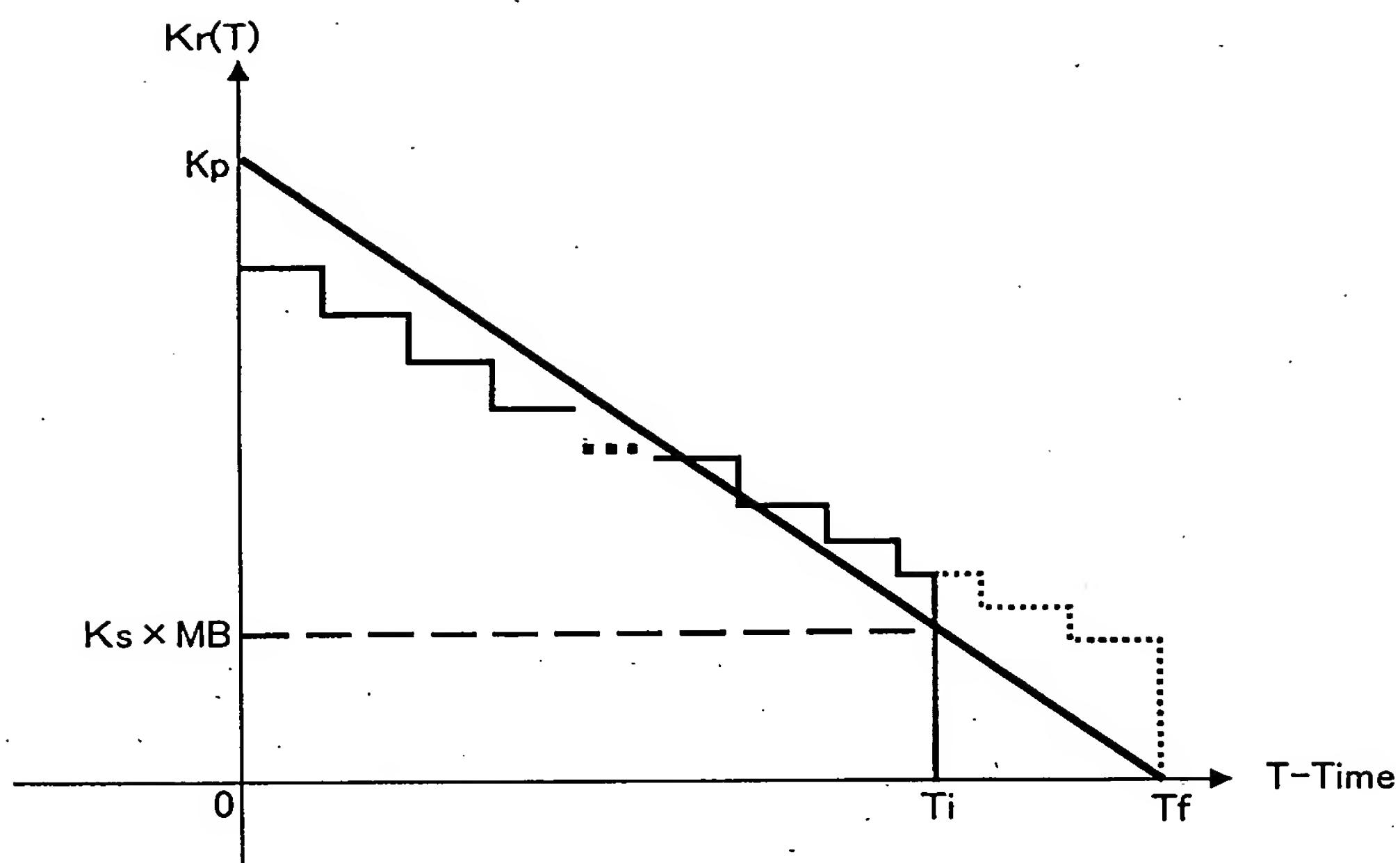
【Fig2】



[Fig3]



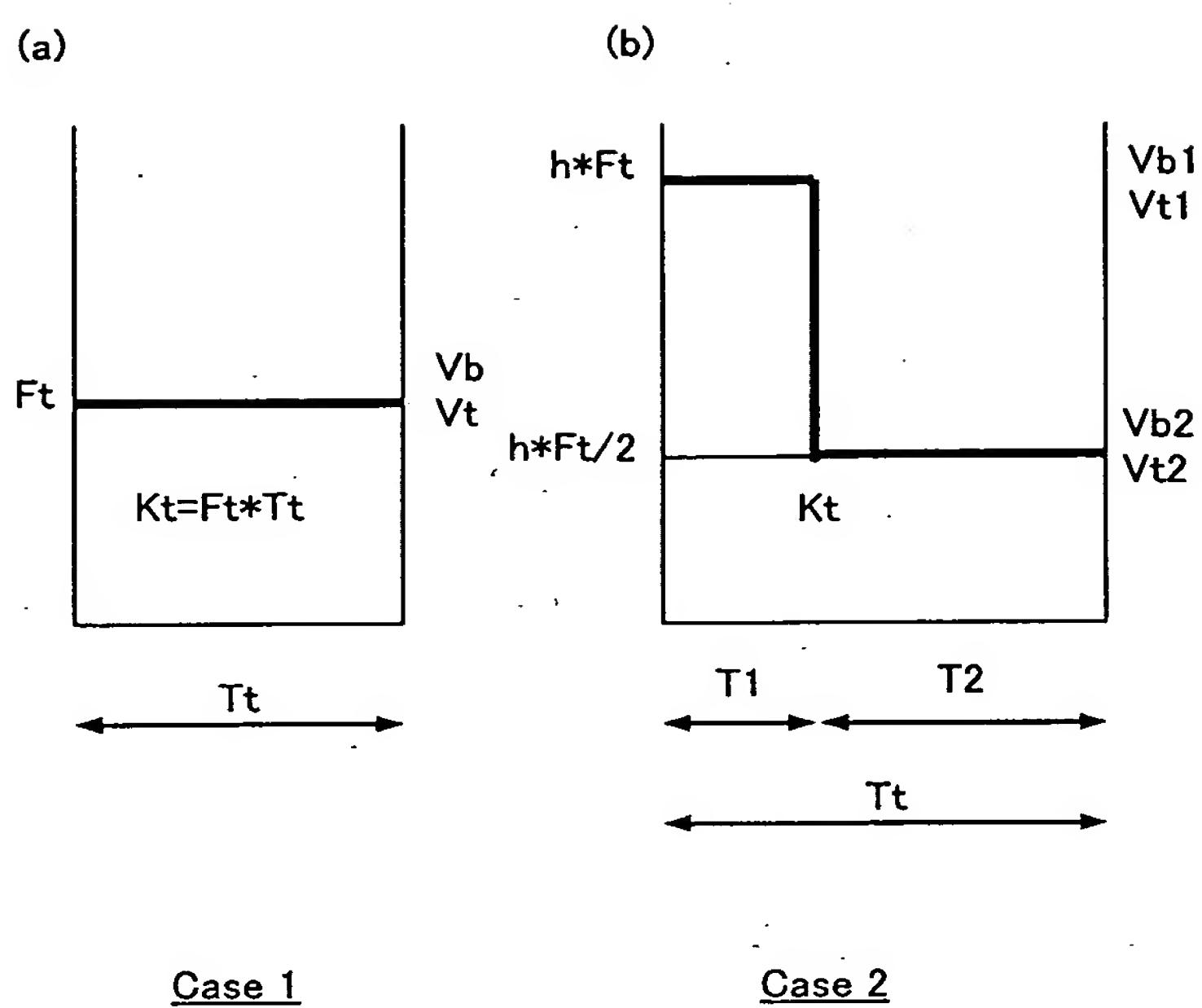
【Fig4】



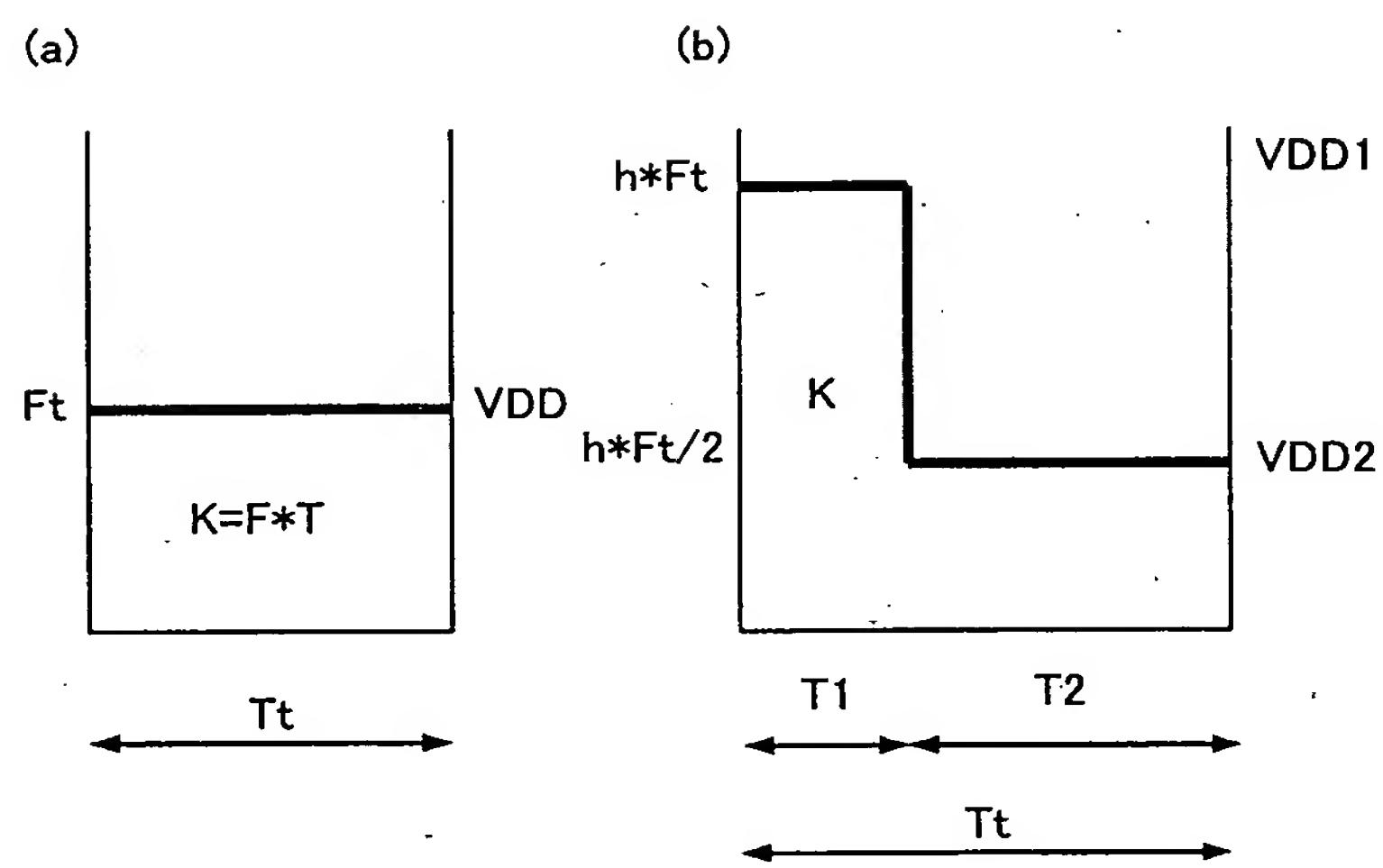
【Fig5】

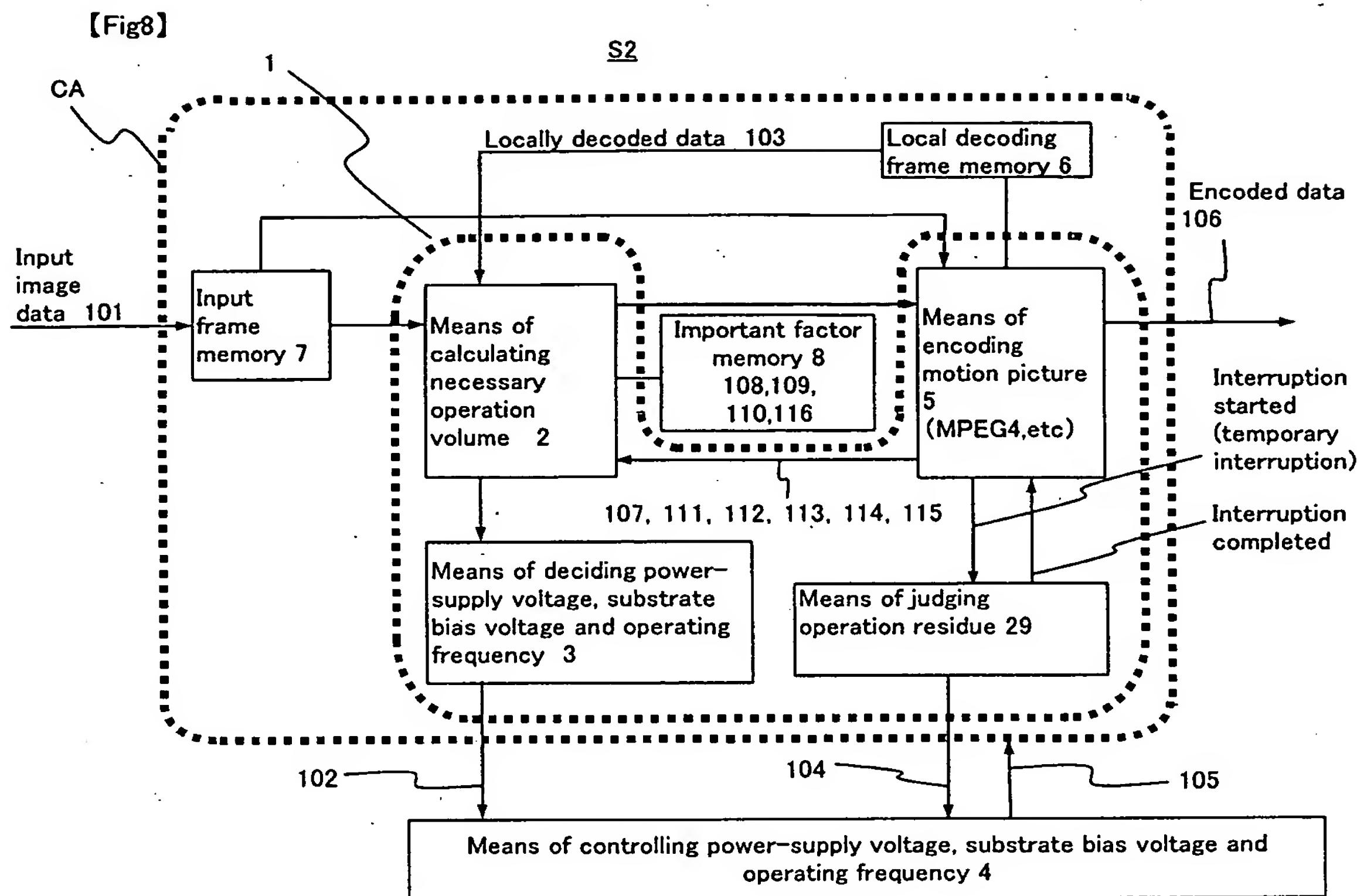
Operating frequency (cycles/second)	Power-supply voltage (V _{DD})	Substrate bias voltage of n-channel MOS transistor (V _{bn})	Substrate bias voltage of p-channel MOS transistor (V _{bp})
f (1)	VDD (1)	V _{bn} (1)	V _{bp} (1)
f (2) (>f (1))	VDD (2)	V _{bn} (2)	V _{bp} (2)
f (3) (>f (2))	VDD (3)	V _{bn} (3)	V _{bp} (3)
·	·	·	·
f (n) (>f (n-1))	VDD (n)	V _{bn} (n)	V _{bp} (n)
·	·	·	·
f (r) (>f (r-1))	VDD (r)	V _{bn} (r)	V _{bp} (r)

【Fig6】

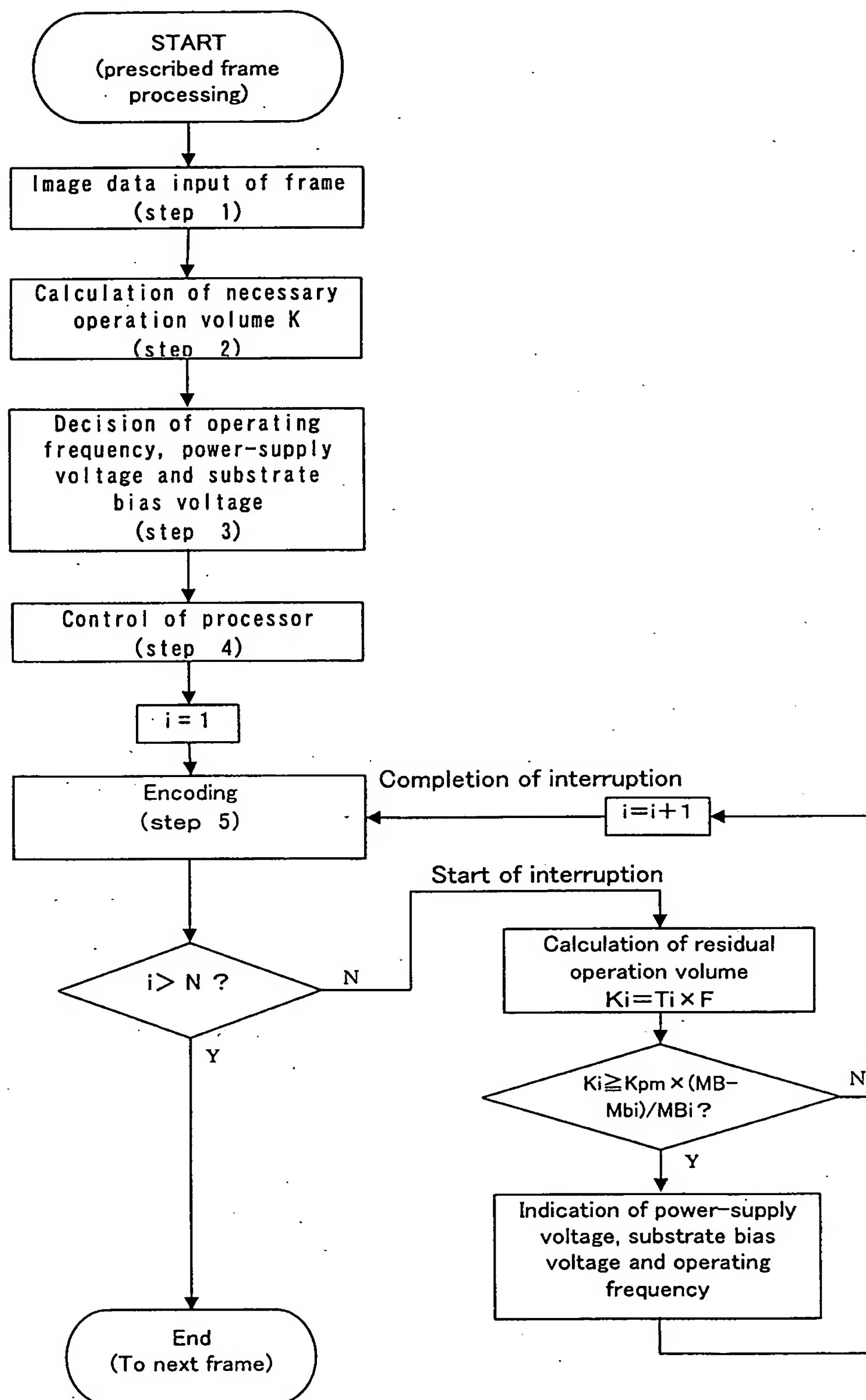


【Fig7】

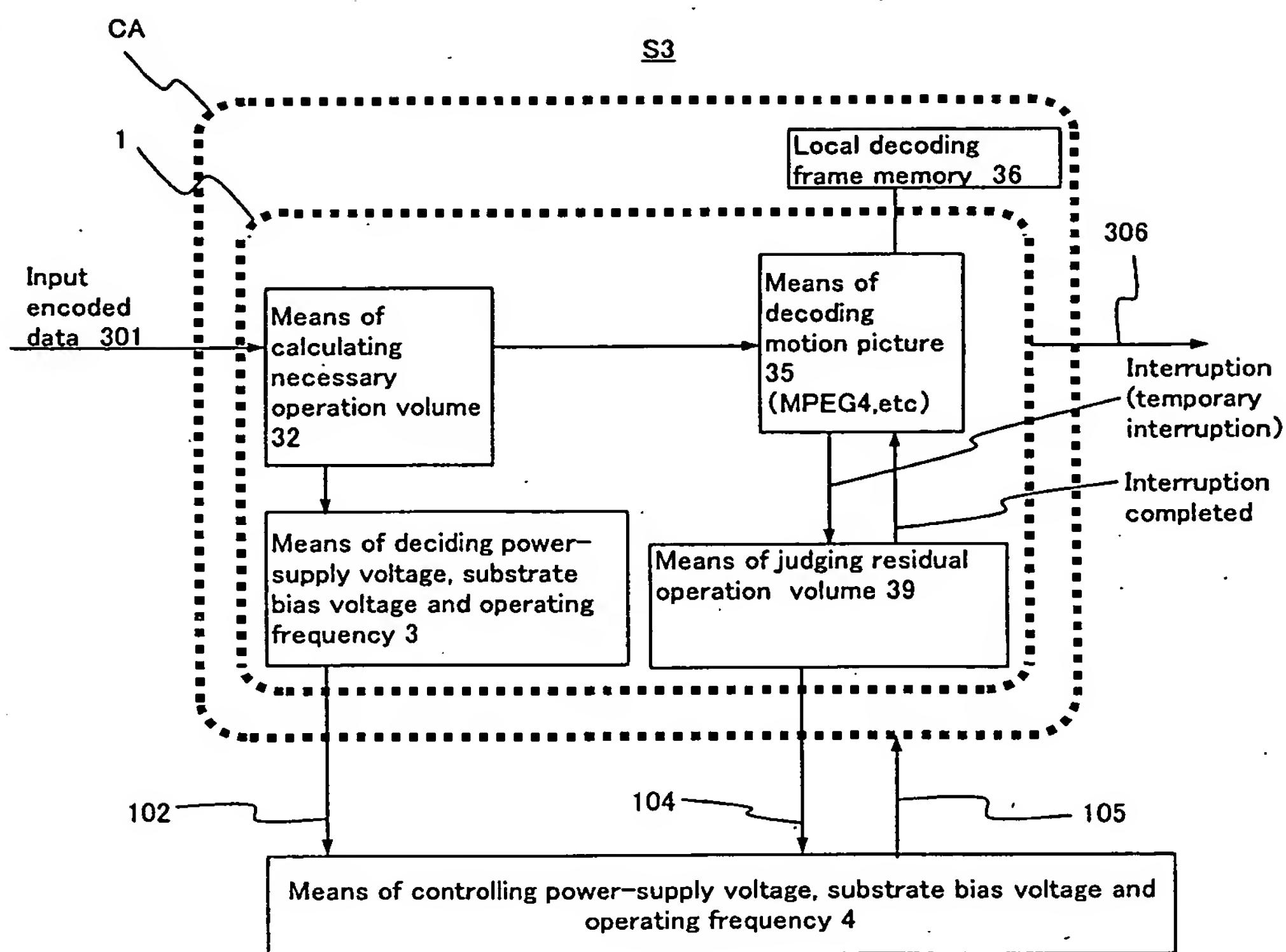




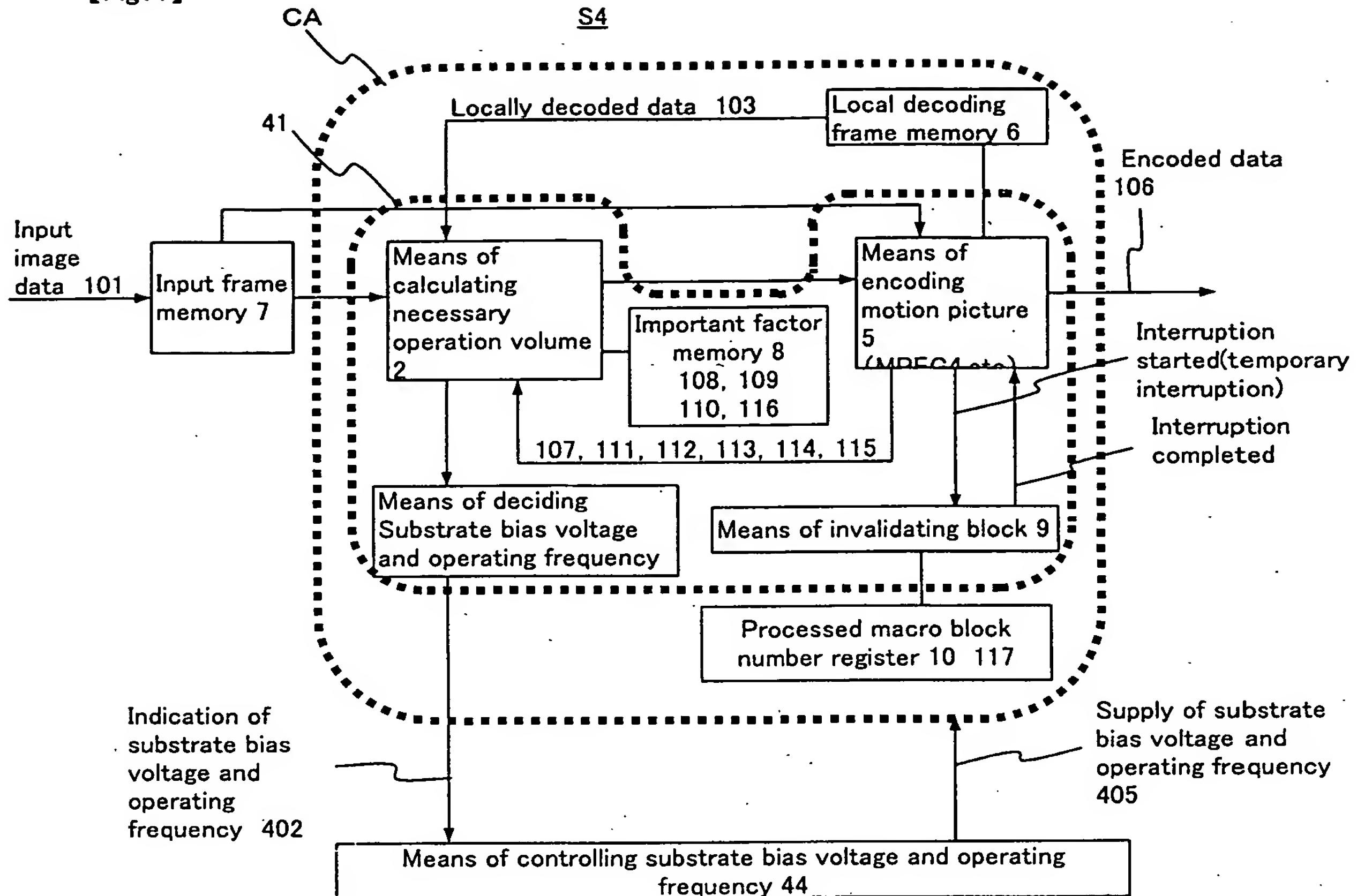
[Fig9]



[Fig10]



[Fig11]



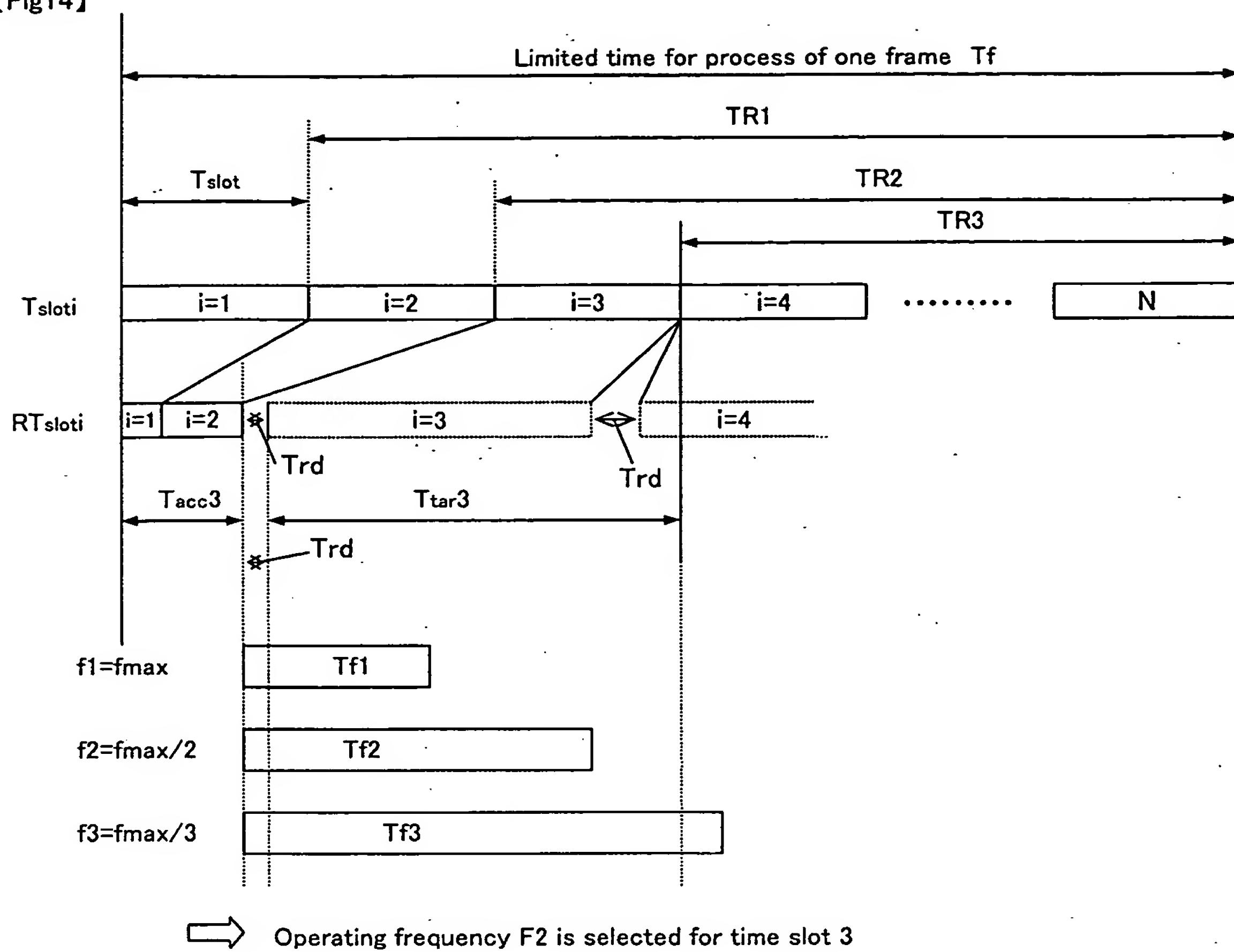
【Fig12】

Operating frequency (cycles/second)	Substrate bias voltage of n-channel MOS transistor (V _{bn})	Substrate bias voltage of p-channel MOS transistor (V _{bp})
f (1)	V _{bn} (1)	V _{bp} (1)
f (2) (>f (1))	V _{bn} (2)	V _{bp} (2)
f (3) (>f (2))	V _{bn} (3)	V _{bp} (3)
.	.	.
f (n) (>f (n-1))	V _{bn} (n)	V _{bp} (n)
.	.	.
f (r) (>f (r-1))	V _{bn} (r)	V _{bp} (r)

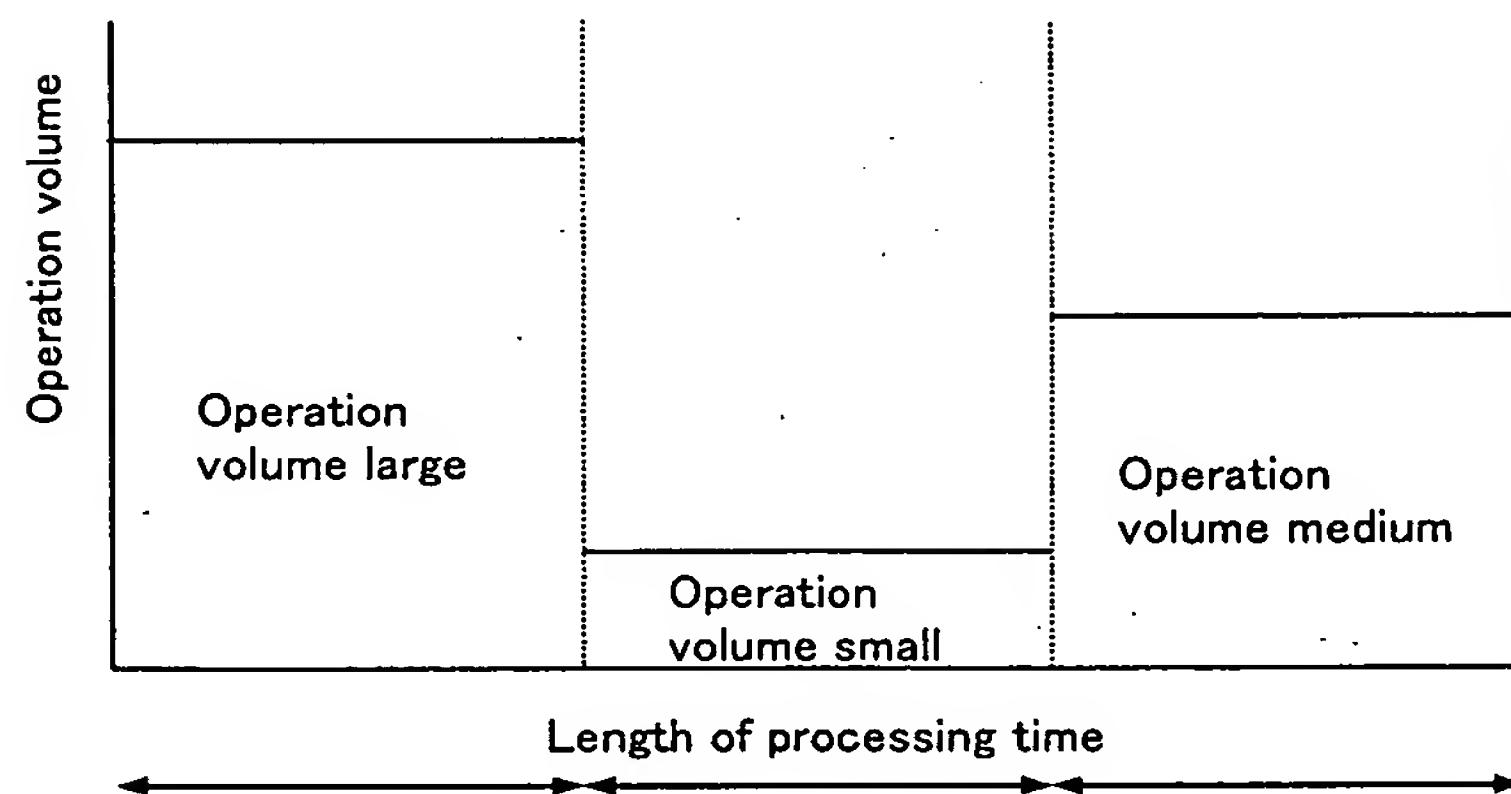
【Fig13】

Operating frequency (cycles/second)	Power-supply voltage (V _{DD})	Substrate bias voltage of n-channel MOS transistor (V _{bn})	Substrate bias voltage of p-channel MOS transistor (V _{bp})
f (1)=50	V _{DD} (1)=0.5	V _{bn} (1) = -1.0	V _{bp} (1) = 1.5
f (2)=100	V _{DD} (2)=0.6	V _{bn} (2) = -0.4	V _{bp} (2) = 1.0
f (3)=150	V _{DD} (3)=0.8	V _{bn} (3) = 0	V _{bp} (3) = 0.8
f (4)=200	V _{DD} (4)=0.9	V _{bn} (4) = 0.2	V _{bp} (4) = 0.7
f (5)=250	V _{DD} (5)=1.0	V _{bn} (5) = 0.5	V _{bp} (5) = 0.5

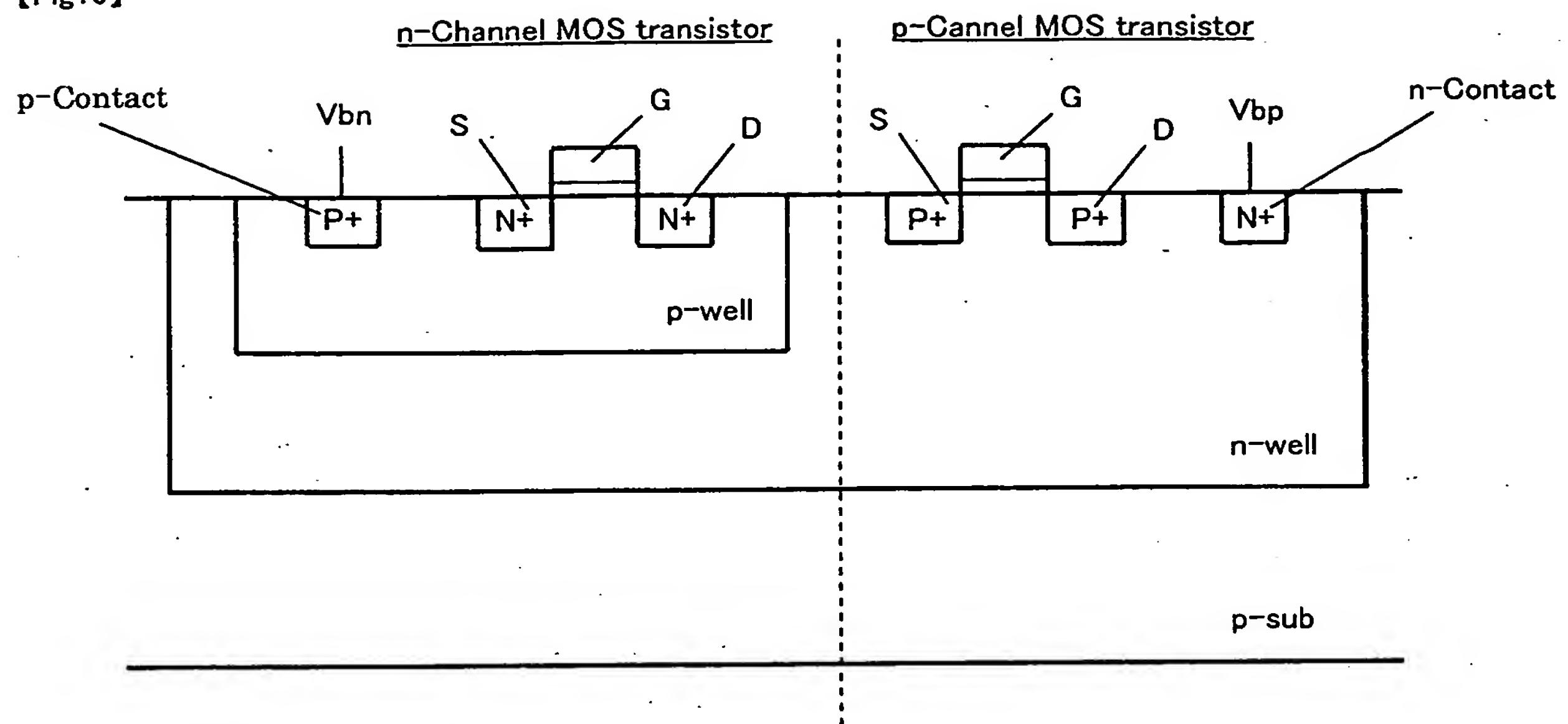
【Fig14】



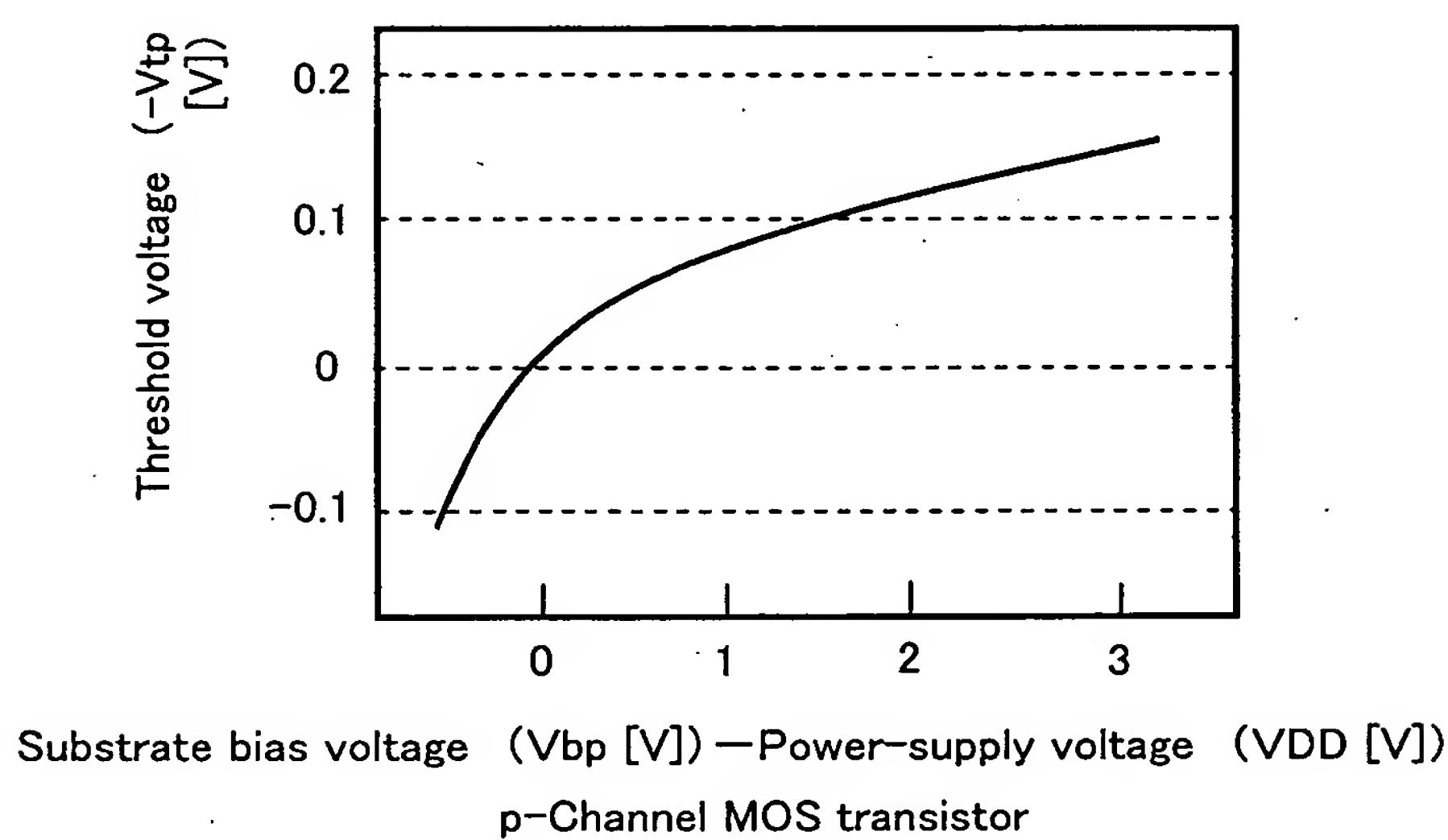
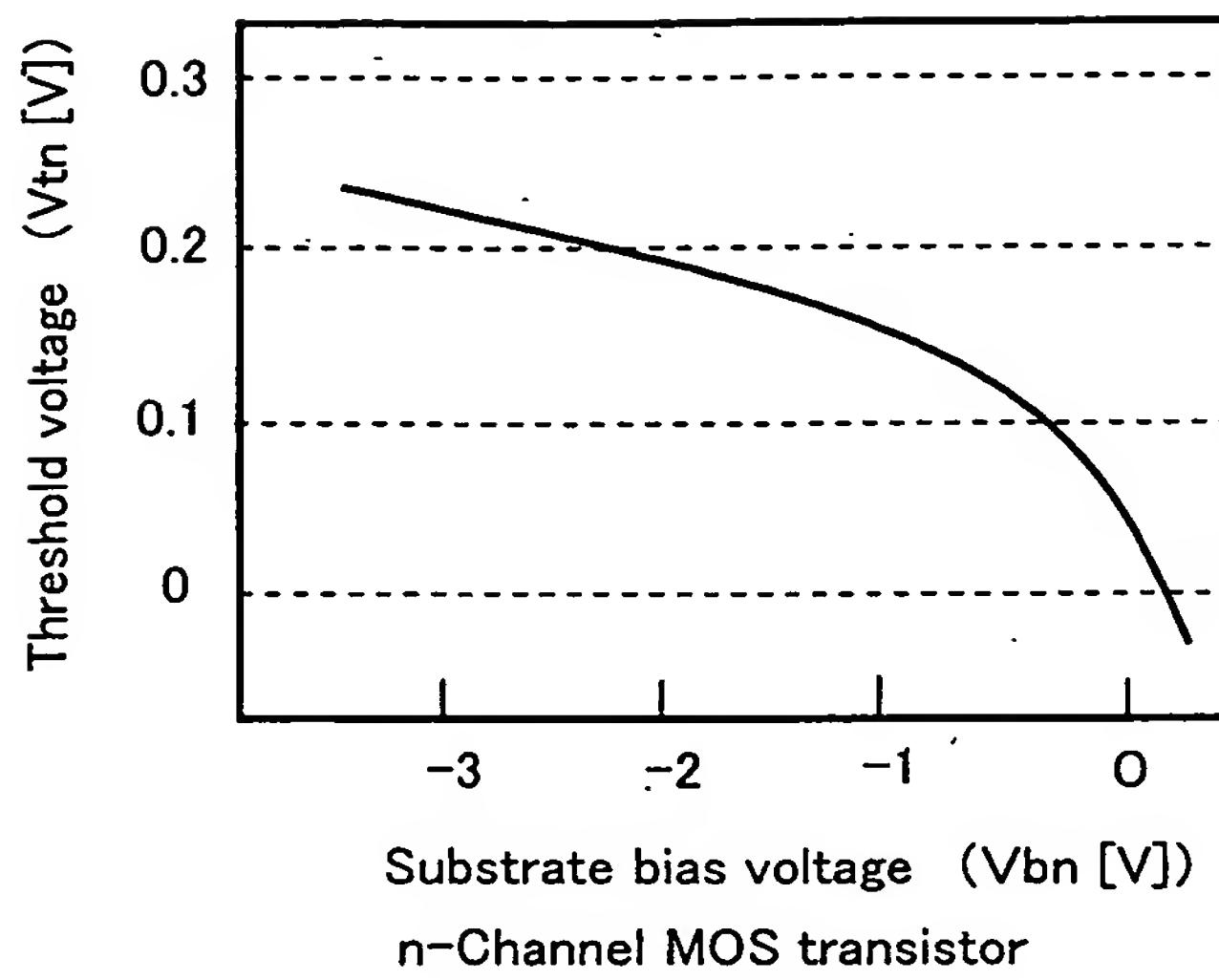
【Fig15】



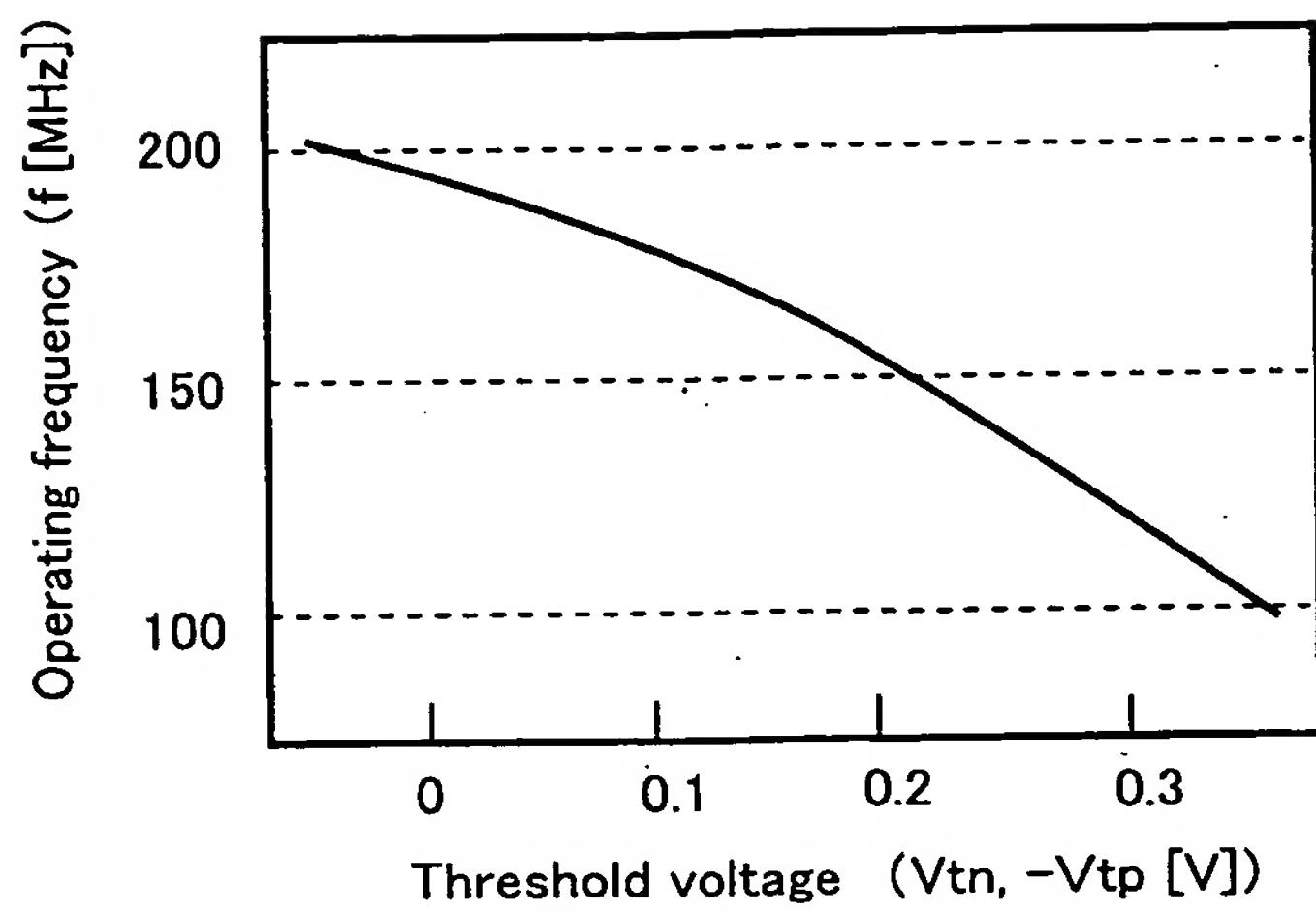
[Fig16]



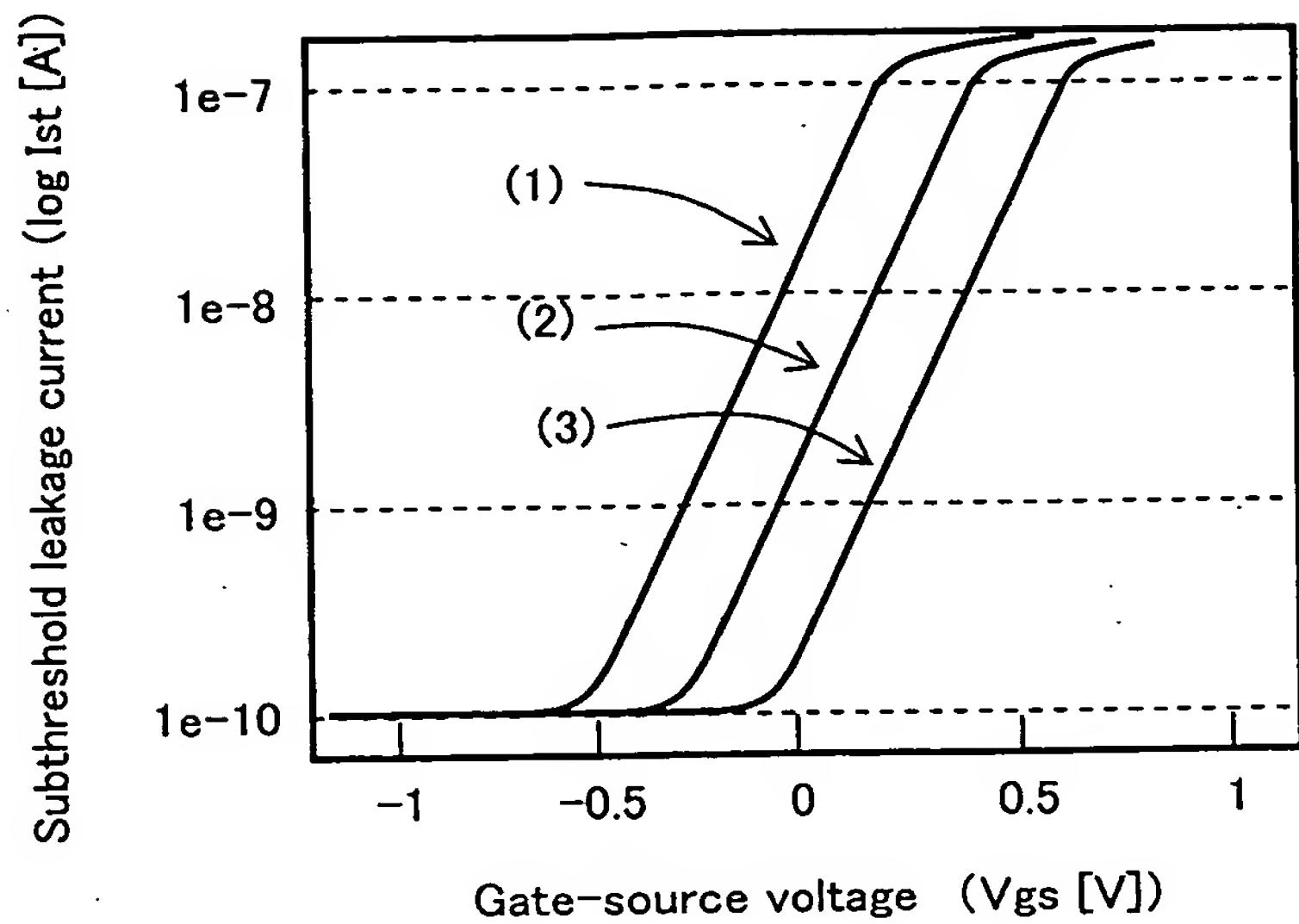
【Fig17】



【Fig18】



【Fig19】



【Fig20】

